RT1P434X SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

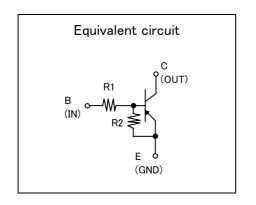
RT1P434X is a one chip transistor with built-in bias resistor, NPN type is RT1N434X.

FEATURE

•Built-in bias resistor (R1=4.7k Ω ,R2=22k Ω).

APPLICATION

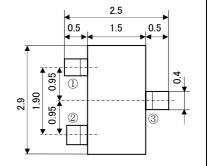
Inverted circuit, switching circuit, interface circuit, driver circuit.

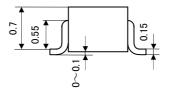


OUTLINE DRAWING

RT1P434C

RT1P434U





JEITA: — JEDEC: —

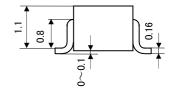
Terminal Connector

①:Base

2: Emitter

3: Collector

RT1P434M



JEITA: SC-59

JEDEC: Similar to TO-236

Terminal Connector

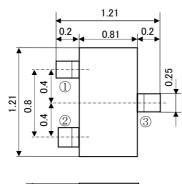
①:Base

2: Emitter

3: Collector

RT1P434S

RT1P434T2



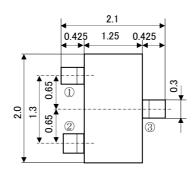


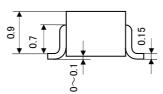
JEITA, JEDEC: — ISAHAYA: T-USM Terminal Connector

①:Base

2:Emitter

3: Collector





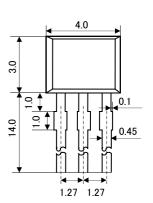
JEITA: SC-70 JEDEC: —

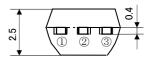
Terminal Connector

(1):Base

2: Emitter

3: Collector





JEITA: — JEDEC: —

Terminal Connector

(1): Emitter

2: Collector

3:Base

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RT1P434X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25°C)

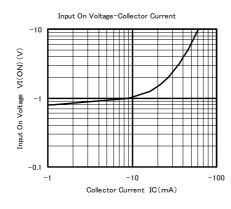
SYMBOL	PARAMETER	RATING					UNIT
		RT1P434T2	RT1P434U	RT1P434M	RT1P434C	RT1P434S	OINII
V _{CBO}	Collector to Base voltage	-50					V
V_{EBO}	Emitter to Base voltage	-6					V
V_{CEO}	Collector to Emitter voltage	−50					V
I c	Collector current	-100					mA
I _{CM}	Peak Collector current	-200					mA
Pc	Collector dissipation(Ta=25°C)	125(※)	150	20	00	450	mW
Tj	Junction temperature	+125 +150				°C	
Tstg	Storage temperature	-55∼+125 -55∼+150					°C

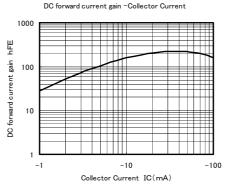
ELECTRICAL CHARACTERISTICS (Ta=25°C)

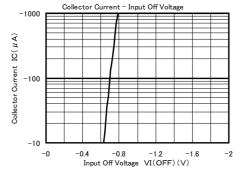
(※) package mounted on 9mm × 19mm × 1mm glass-epoxy substrate.

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50			٧
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0			-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I $_{C}$ =-5mA	50			ı
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$		-0.1	-0.3	٧
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V, I _C =-5mA		-0.9	-1.7	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V, I $_{C}$ =-100 μ A	-0.5	-0.7		٧
R ₁	Input resistance		3.3	4.7	6.1	kΩ
R ₂ /R ₁	Resistance ratio		4.2	4.7	5.1	
f⊤	Gain band width product	V_{ce} =-6V, I _e =10mA		150		MHz

TYPICAL CHARACTERISTICS









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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